

# FLAME DETECTOR

# INSTRUMENT DATA SHEET

0	<b>INSTALLATION</b>	
0.01	Location	
0.02	Tag no.	
0.03		
1	<b>GENERAL</b>	
1.01	Type	MultiFlame detector
1.02	Product	Simtronics Multi-spectrum Infrared
1.03	Product code	Standard range: DF-TV7-XTA0-*; Long range: DF-TV7-XTB0-*
1.04	Manufacturer	Simtronics
2	<b>FLAME DETECTOR</b>	
2.01	Type / Principle	Optical flame detection
2.02	Technology	Multispectrum Infrared flame detector
2.04	Fire Types	Hydrocarbon fires
2.05	Modularity	Replaceable sensor cartridge
3	<b>PERFORMANCE</b>	
3.01	Cone of vision	110 deg horizontal, 95 deg vertical
3.02	Response time	2 sec. Additional adjustable delay 3 - 20 sec
3.03	Detection range:	
3.04	- n-heptane (1 sq ft fire)	Standard: 40m (130ft). Long range: 80m (260ft)
3.05	- Gasoline (1 sq ft fire)	Standard: 33 m (110 ft). Long range: 65 m (210 ft)
4	<b>ELECTRICAL</b>	
4.01	Power supply	24V DC, range (18 - 32V DC)
4.02	Power consumption	2W normal; 4W during test
4.03	Cable entry	2x M20, one entry with Exd plug
4.04	Junction box	"No-touch" field cabling", detector replaceable without opening cable glands
4.05	Connection	0.3 mm <sup>2</sup> (22 AWG) - 1.5 mm <sup>2</sup> (16 AWG)
4.06	output signal	4-20mA, source, max. load impedance 700Ω. Optional HART <sup>®</sup> (7 <sup>th</sup> Edition)
4.07	Fault signalling	Diagnosis signalling in the 2.0 - 3.4mA range
4.08	Relays	2 configurable relays for fire and fault Max 1A/30V
4.09	Maintenance interface	Wireless (IR) handheld terminal for configuration, test and diagnosis
5	<b>ENVIRONMENT</b>	
5.01	Storage	-40°C to +70°C
5.02	Operation	-20°C to +65°C; (up to +85°C with Sunshade)
5.03	Humidity	95% RH (non-condensing)
5.04	Ingress	IP66
5.05	RFI/EMI	Complies with EN50130-4
6	<b>HOUSING</b>	
6.01	EX Classification	Ex d II C T6
6.02	Material	316L Stainless steel
6.03	Weight	5 kg (10 lbs)
6.04	Dimensions	223L x 118D x 184H (mm), 8.78L x 4.65D x 7.25H (inches)
7	<b>APPROVALS</b>	
7.01	ATEX	Certificate LCIE 13 ATEX 3025X
7.02	IECEX	Certificate IECEX LCIE13.0022X
7.03	SIL	SIL3 approval without redundancy IEC 61 508-1 to 7 (Certificate LCIE SF-*T-201 31 1 03 R0)
8	<b>ACCESSORIES</b>	
8.01	PRO10-TLU600	Infrared remote control unit (Intrinsically Safe) IECEx / ATEX certified
8.02	PRO10-LT15	Test lamp (EX flame simulation torch)
8.03	PRO10-AS056-450	316SS Sunshade
8.04	PRO10-AS045	Air Shield
8.05	PRO10-AS048-X	316SS wall mounting bracket
8.06	PRO10-AS040	Sun visor (long, open) - vertical upper angle reduction
8.07	PRO10-AS041	Sun visor (long, narrow) - horizontal and vertical upper angle reduction

 <p>ProDetec Pty.Ltd.  P. +61 (02) 9620 8700  F. +61 (02) 9620 8755  E. info@prodetec.com.au  A. 17/38 Powers Rd,  Seven Hills NSW 2147  www.prodetec.com.au</p>	Client		Reference	PRO10-DFTV7-DS Rev02
	Project		Prepared	
	Location		Checked	
	Client ref		Approved	
			Date	
			Sheet No	1 of 1